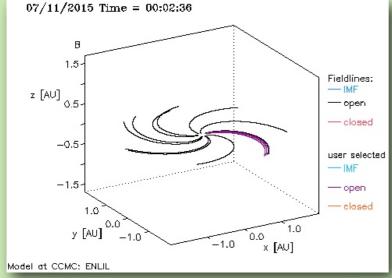
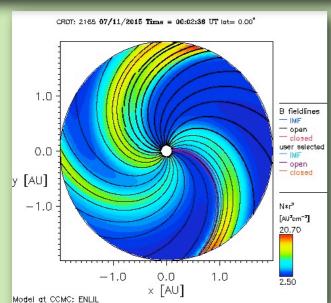
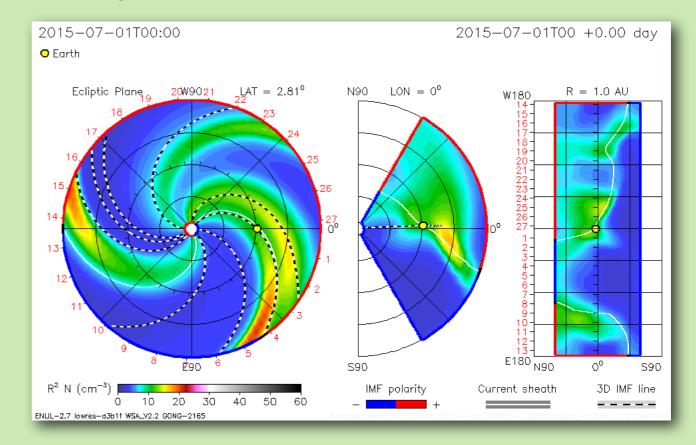
LEGACY RUNS-ON-REQUEST VISUALIZATION





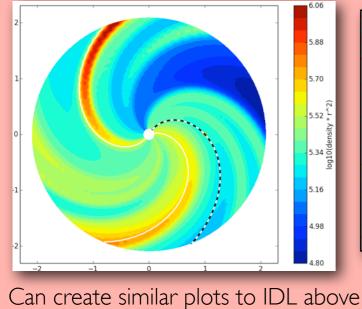


Visualization capabilities:

- Predefined "quick look" graphics (I-click)
- Field lines colored by topology
- Slices of custom variables (N*r^2)
- Vector Glyphs

Limitations:

- Static Images are not interactive
- Scaling/zooming cumbersome
- Custom variables on request
- Limited to IDL feature set



Topology analysis, 3D vis (magnetosphere)

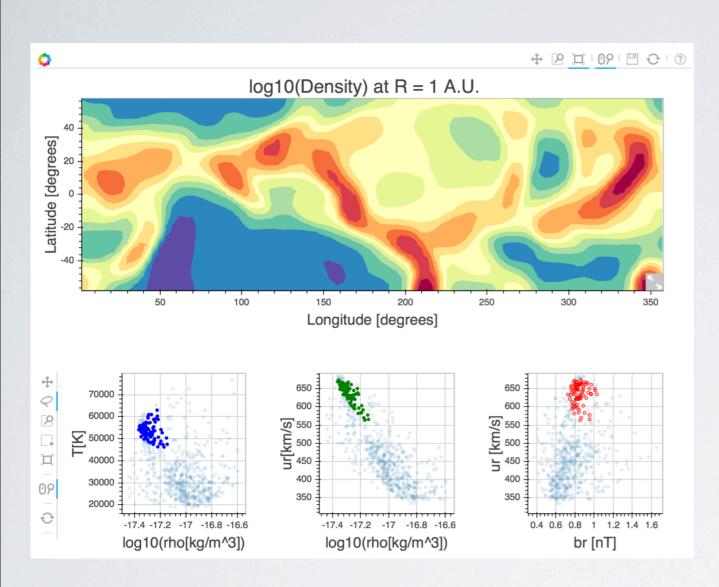
KAMELEON-PYTHON VISUALIZATION

The Kameleon library provides an API for several RoR models, which allows us to build flexible applications for visualization, utilizing powerful python libraries:

matplotlib
pandas
mayavi
vtk

scipy numpy bokeh

KAMELEON-LIVE A NEW WEB INTERFACE FOR RUNS-ON-REQUEST



Kameleon-live aims to mondernize the runs-on-request visualization pipeline.

Canvas features for Fall '15:

- Canvas of moveable, resizable plots
- Zoomable axes, linked accross plots
- Lasso tool for scattered point data
- Time series analysis, histograms
- Compare output from multiple models
- Trace 3D Fieldlines through multiple models

Potential Community features:

- User logins customize workflow
- Run-specific wiki for collaborative analysis
- Data-model comparisons

Interactive plots:

- Resize/zoom/pan linked plots
- Lasso tool find hidden correlations among multiple parameters

What features interest you?